South Florida Water Management District
Regulatory Peer Review Forum
August 6, 2004
10am-noon

SUMMARY

Attendees:

Jay Foy ..... Stormwater J Engineering, Inc.
Craig Kidwell ..... QURE Property Sciences
Bill Keith..... Keith & Associates
Hian C. Kor..... K-F Group
Patrick Martin ..... Lake Worth Drainage District
Tracy Robb..... Calvin-Giordano
Ken Todd..... Palm Beach County
Gerry Ward..... Ward Engineering
Alan Wertepny..... Mock Roos
Terrie Bates..... SFWMD - Environmental Resource Regulation Staff
Damon Meiers..... SFWMD - Environmental Resource Regulation Staff
Anita Bain ..... SFWMD - Environmental Resource Compliance Division
Beth Colavecchio ..... SFWMD - Regulatory Information Management Division

1. Opening remarks and review of previous meeting minutes (Damon Meiers)

Mr. Meiers opened the meeting at about 10:10 am. All persons present introduced themselves. There were no comments about the minutes of the previous meeting.

Mr. Meiers stated that the Emergency Operable Structure Policy that requires a Memorandum of Understanding (MOU) will be revised to remove the MOU requirements. After six years of experience, staff believes the policy no longer requires MOUs. It is scheduled to go before the Board in September.

The following issues were raised:

- Gerry Ward raised concerns regarding MOU and variances. Patrick Martin stated that LWDD still maintains control over HOA structures.

- Ken Todd stated that it has worked well with local governments. The flexibility in working with local governments needs to continue. General consensus is that the program is working well. Ken Todd also stated that it's been helpful to have the annual meeting with District and Local Government.

- Patrick Martin inquired about "Know the Flow." Mr. Meiers stated that an enhanced version of this program is being conducted in Broward County. Mr. Martin suggested that a similar program should be conducted here in Palm Beach County.

- Material on pervious concrete was distributed to the group.

2. C-51 Basin Study Update/C-51 Basin Rulemaking Update (Damon Meiers)

Mr. Meiers reported on the C-51 Basin Rule. STA-1E construction is being finalized.

C-51 dredging/widening project is underway. Completion date is scheduled for November. Operation permit from DEP will take 2-3 months. Water quality going out has to be better than what is coming in before permanent pumping operations can begin.

Mr. Martin asked about dovetailing with rule. Mr. Meiers reported that we have to have an effective date for rule before we can take the next step. This will depend on STA-1E operation effective date. Mr. Meiers also reported on interim C-51 considerations. He distributed the comparison results for 100-year/72 hour storm event based on the existing conditions report provided by Palm Beach County **(Attachment 1)**. Mr. Meiers is in the process of preparing a guidance memo to staff based on new existing conditions model runs. This becomes the best available information which can be used in permitting now. Mr. Meiers will provide updated table to match with map.

3. TMDLs/Verified Group 2 Impaired Waters List (Damon Meiers)

Mr. Meiers distributed a list of Group 2 impaired waters and WQ staff guidance **(Attachment 2)**. General discussion ensued regarding current rules that require new projects be designed so they do not contribute to the impairment of an impaired water body and the difficulty this adds to permitting.

Carla Palmer will be invited to attend next meeting to describe her new role as the Director of the new Stormwater Division.

4. Scripps Update (Damon Meiers)

Mr. Meiers gave a brief update on the Scripps project. The ERP for the Mecca Site is being presented at the August Governing Board meeting with a recommendation for approval. He reported that the Vavrus DRI was amended, but informed that there was no ERP as of yet.

5. Stub Canal Taskforce (Ken Todd)

Mr. Todd provided an update on Stub Canal Task Force developing scope for analyzing basin, then developing alternatives. District has done sounding of portions of canal. The County and City of West Palm Beach will be providing survey information.

6. Next Meeting date/topics/adjournment

Jay Foy complimented the new Basis of Review CD.

Potential items: Permit review efficiency update outlining what was implemented.

The next meeting is scheduled for Friday, October 1, 2004, at 10am in the Rogers Conference Room.

The meeting adjourned at about 11:55 A.M.

c: H. Dean - Executive Director
C. Wehle - Assistant Executive Director
S. Wood - District General Counsel
C. Merriam - Deputy Executive Director - Water Resources
A. Sewell - Media and Community Relations
T. Bates - Director - ERR
Environmental Resource Regulation Division Directors

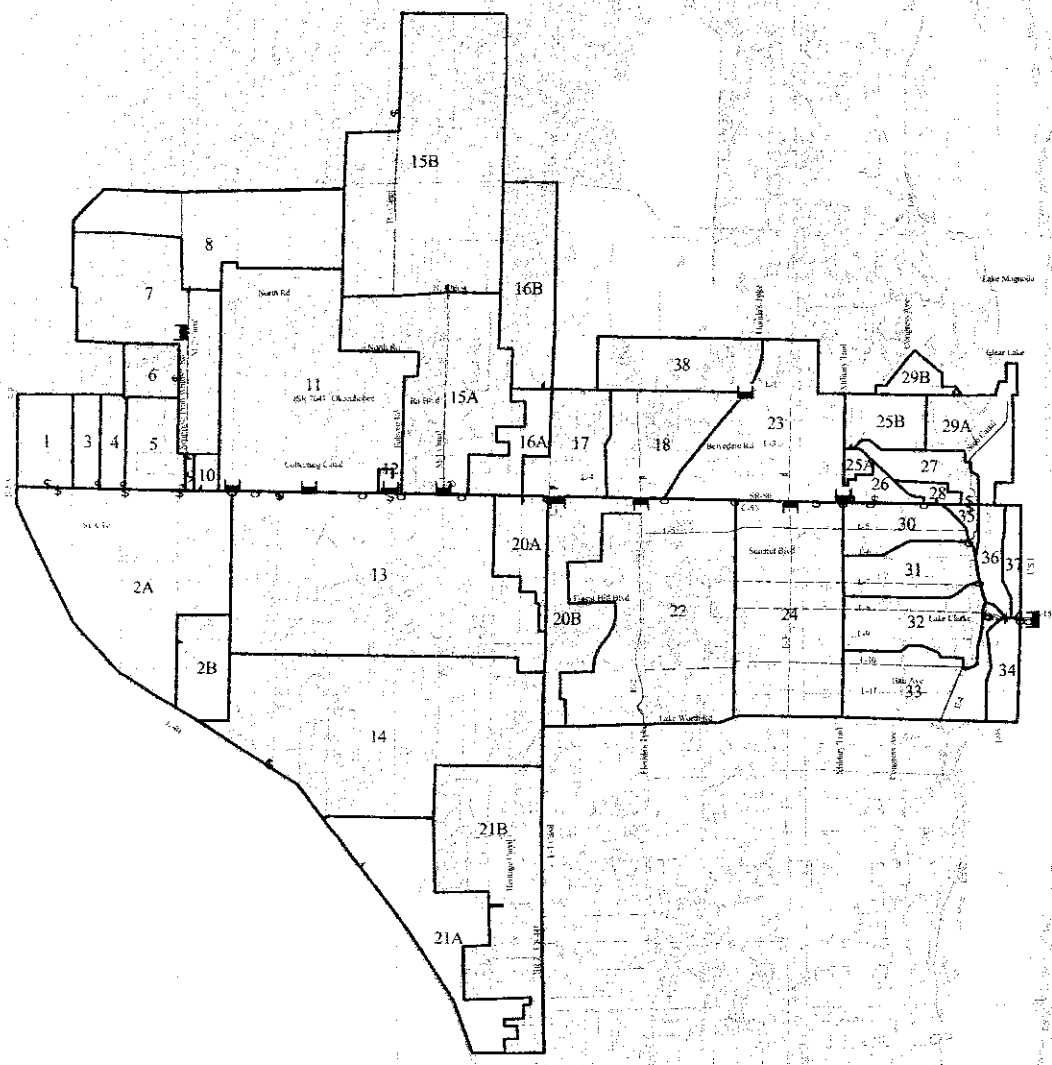
ATTACHMENT 1

Comparison Results for 100-year/72 Hour Storm Even Based on Existing Conditions

Table 3-2 Comparison of Results for 100-yr, 72-hr Storm Event

Sub-basin	Existing Condition		Basin Rule Alternative A3		Recommended Stage (ft)
	Peak Outflow (cfs)	Peak Stage (ft)	Peak Outflow (cfs)	Peak Stage (ft)	
1	45	14.2	48	14.2	14.2
2A	166	13.3	--	--	--
2B	23	14.0	50	13.8	13.8
3	26	15.8	26	15.8	15.8
4	29	16.6	29	16.6	16.6
5	61	17.7	80	17.4	17.4
6	67	19.2	67	19.2	19.2
7	220	19.9	226	19.9	19.9
8	1	20.8	418	20.6	20.6
9	1	18.0	38	17.6	17.6
10	18	18.3	17	18.3	18.3
11	814	19.1	1425	18.9	18.9
12	52	17.9	52	17.5	17.5
13	267	16.7	406	16.6	16.6
14	223	15.8	--	--	--
15A	856	18.2	1000	18.2	18.2
15B	--	--	--	--	--
16A	518	17.1	566	16.8	16.8
16B	58	19.0	58	19.0	19.0
20A	61	16.5	127	16.1	16.1
17	412	16.8	534	16.6	16.6
18	291	16.0	431	15.7	15.7
20B	480	17.0	751	16.8	16.8
21A	0	17.3	0	17.3	17.3
21B	96	17.7	135	17.7	17.7
22	521	17.5	527	17.5	17.5
23	850	17.1	849	17.1	17.1
24	592	17.9	601	17.9	17.9
25A	450	14.6	449	14.6	14.6
25B	390	14.7	391	14.7	14.7
26	320	13.8	320	13.8	13.8
27	320	13.2	320	13.2	13.2
28	434	12.3	440	12.4	12.4
29A	474	14.8	474	14.8	14.8
29B	830	15.2	830	15.2	15.2
30	268	14.1	268	14.1	14.1
31	670	13.1	670	13.1	13.1
32	527	13.0	527	13.0	13.0
33	546	13.6	546	13.6	13.6
34	163	17.0	171	17.0	17.0
35	45	11.5	45	11.3	11.3
36	173	14.0	158	14.0	14.0
37	104	16.5	108	16.4	16.4
38	134	17.3	151	17.2	17.2

Note: Flow values are rounded to the nearest whole number
Stage values are rounded to the nearest one-tenth of one foot



Legend:

- Primary and Some Secondary Stormwater Conveyance System
- Secondary and Tertiary Stormwater Conveyance System
- 15B — Sub-Basin Boundary with Name
- S — Pump Station
- Gate
- Culvert / Weir
- Bridge

N

Scale 1:144,000

0 10000 20000 30000 40000 Feet

Source:
Land Boundary Information System (www.labins.org)
The most up-to-date or based on the 1994 DOQQs
State Plane Projection; NAD 83 Datum; In Shape File FORMAT for:
West Palm Beach 2 SE, Delta, Rivera Beach, Loxahatchee, Palm Beach Farms, Palm Beach, Loxahatchee SE, Greenacres City, Lake Worth, Florida

bpc GROUP

REV	DATE	REMARKS	ENG	BY	CKD
		NA			

	NAME	DATE
DESIGNED BY	BKP	04/14/04
DRAWN BY	MT	04/14/04
CHECKED BY	BKP	04/14/04
APPROVED BY	BKP	04/14/04
FILE NAME: 04002-FIGURE 2-1.APR		

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of Florida.

SIGNED NA
NAME
DATE REG. NO

STORMWATER CONVEYANCE SYSTEM
C-51 Basin Model: Existing Condition
Persimmon Blvd. East End Connection to Okeechobee Blvd.
Palm Beach County, Project No. 1998500

FIGURE 2-1

FILE NUMBER 04002 SHEET OF

ATTACHMENT 2

Group 2 Impaired Waters and WQ Staff Guidance

St.Lucie - Loxahatchee Group 2 Basin/ Southeast District - Verified List
Hydrologic Units: Southeast Florida Coast

OGC Case Number	Basin Group Name	WBID	Water Segment Name	Waterbody Type	Waterbody Class	Parameters Assessed Using the Impaired Waters Rule (IWR)	Concentration Causing Impairment[1]	Priority for TMDL Development[2]	Projected Year for TMDL Development[2]	Comments[3] (# Exceedances/# Samples) PP=Planning Period VP=Verified Period
03 2646	Southeast Florida Coast	3163	FT.PIERCE FARM CANAL (BELCHER CAN/TAYLOR CK)	STREAM	3F	Dissolved Oxygen	DO < 5 mg/L	High	2006	PP - 4/11 Potentially Impaired; VP - 21/49 Verified Linked to nutrients, with both nitrogen and phoshorous as limiting nutrients, colimtation of Nitrogen and Phosphorus, TN during VP = 0.706 mg/L, TP during VP = 0.197 mg/L.
03 2647	Southeast Florida Coast	3163B	C-25 EAST SEGMENT	STREAM	3F	Nutrients (CHLA)	TN = 1.438 mg/L TP = 0.145 mg/L	Medium	2008	PP - No Data; VP - Verified, with one annual mean chl a value above 20 ug/L. Colimiting of nitrogen and phosperous based upon TN/TP ratios [TN median = 1.438 mg/L and TP median = 0.145 mg/L. PP median TN/TP ratio = 10.46 (327 values), VP median TN/TP ratio = 10.11 (291 values).
03 2648	Southeast Florida Coast	3163B	C-25 EAST SEGMENT	STREAM	3F	Dissolved Oxygen	DO < 5 mg/L	Medium	2008	PP - 75/126 Potentially Impaired, VP - 52/109 Verified Linked to nutrients, with both nitrogen and phosporous as limiting nutrients, colimtation of Nitrogen and Phosphorus, TN during VP = 1.445 mg/L, TP during VP = 0.139 mg/L.
03 2649	Southeast Florida Coast	3163B	C-25 EAST SEGMENT	STREAM	3F	Iron	Fe ≥ 1.0 mg/L	Medium	2008	PP - 30/39 Potentially Impaired; VP - 12/25 Verified
03 2650	Southeast Florida Coast	3190	NORTH COASTAL	ESTUARY	3M	Nutrients (CHLA)	TN = 0.93 mg/L TP = 0.056 mg/L	Medium	2008	PP - Potentially Impaired; VP - Verified, with two annual mean chl a values above 11 ug/L. Both phosphorous and nitrogen identied as limiting nutrients based on TN/TP ratios. TN median = 0.93 mg/L, TP median = 0.056 mg/L. PP TN/TP ratio median = 12.5 (357 values), VP = 14.87 (230 values).
03 2651	Southeast Florida Coast	3190	NORTH COASTAL	ESTUARY	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2652	Southeast Florida Coast	3193	ST. LUCIE RIVER	ESTUARY	3M	Nutrients (CHLA)	TN = 0.886 mg/L TP = 0.108 mg/L	Medium	2008	PP - Potentially Impaired; VP - Verified, with one annual mean chl a value above 11 ug/L. Both phosphorous and nitrogen identied as limiting nutrients based on TN/TP ratios. TN median = 0.886 mg/L, TP median = 0.108 mg/L. PP median TN/TP ratio = 6.9 (530 values), VP median TN/TP ration = 7.12 (221 values).
03 2653	Southeast Florida Coast	3193A	ROOSEVELT BRIDGE	COASTAL	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2654	Southeast Florida Coast	3194	NORTH ST.LUCIE	ESTUARY	3M	Dissolved Oxygen	DO < 4 mg/L, and < 5 mg/L as daily average.	High	2005	PP - 119/410 Potentially Impaired; VP - 96/345 Verified Linked to elevated BOD during PP and VP. PP = 7.5 mg/L, and VP = 7.7 mg/L.
03 2655	Southeast Florida Coast	3194	NORTH ST.LUCIE	ESTUARY	3M	Nutrients (Hist. CHLA)	TN = 0.742 mg/L TP = 0.054 mg/L	High	2005	PP - Histchla Potentially Impaired; VP - Verified, based on seven annual mean chl a values above 11 ug/L. Colimitation of nitrogen and phosphorus based TN/TP ratios. TN median = 0.742 mg/L and TP median = 0.054 mg/L. PP median TN/TP ratio = 5.17 (458 values), VP median TN/TP ratio = 5.43 (283 values).
03 2656	Southeast Florida Coast	3194	NORTH ST.LUCIE	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - 3/3 Potentially Impaired; VP - 20/54 Verified
03 2658	Southeast Florida Coast	3194B	ST. LUCIE	ESTUARY	3M	Nutrients (CHLA)	TN = 1.1 mg/L	High	2005	PP - Histchla Potentially Impaired; VP - Verified, with seven annual mean chl a values above 20 ug/L. Nitrogen is the limiting nutrient based on TN/TP ratios. PP median TN = 1.1 mg/L. PP median TN/TP ratio = 3.08 (131 values), VP median TN/TP ratio = 3.09 (242 values).
03 2659	Southeast Florida Coast	3194B	ST. LUCIE	ESTUARY	3M	Dissolved Oxygen	DO < 4 mg/L, and < 5 mg/L as daily average.	Medium	2008	PP - 75/557 Potentially Impaired; VP - 56/399 Verified Linked to elevated nutrients, with colimitation of nitrogen and phosporous, TN during VP =1.038 mg/L, TP during VP = 0.193 mg/L.
03 2660	Southeast Florida Coast	3194B	ST. LUCIE	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - 2/11 Not Impaired; VP - 25/58 Verified

St.Lucie - Loxahatchee Group 2 Basin/ Southeast District - Verified List
Hydrologic Units: Southeast Florida Coast

QGC Case Number	Basin Group Name	WBID	Water Segment Name	Waterbody Type	Waterbody Class	Parameters Assessed Using the Impaired Waters Rule (IWR)	Concentration Causing Impairment[1]	Priority for TMDL Development[2]	Projected Year for TMDL Development[2]	Comments[3] (# Exceedances/# Samples) PP=Planning Period VP=Verified Period
03 2662	Southeast Florida Coast	3194D	FIVEMILE CREEK	STREAM	3F	Dissolved Oxygen	DO < 5 mg/L	Medium	2008	PP - 8/15 Potentially Impaired; VP - 12/30 Verified Linked to elevated BOD level during PP and VP. PP median BOD = 2.2 mg/L, VP median = 2.2 mg/L.
04 0804	Southeast Florida Coast	3197	C-24	STREAM	3F	Fecal Coliform	FC > 400 counts/100ml	Medium	2008	PP - 9/41Insufficient Data; VP - 9/41 Verified
03 2663	Southeast Florida Coast	3197	C-24	STREAM	3F	Nutrients (CHLA)	TP = 0.258 mg/L	High	2005	PP - Insufficient Data; VP - Verified, with one annual mean chl a value above 20 ug/L. Phosphorus limiting based on TN/TP ratios [PP TP median = 0.251 mg/L; VP TP median = 0.258 mg/L. PP TN/TP ratio median = 5.82 (417 values), VP TN/TP ratio = 5.68 (408 values).
03 2664	Southeast Florida Coast	3197	C-24	STREAM	3F	Dissolved Oxygen	DO < 5 mg/L	High	2005	PP - 100/156 Potentially Impaired; VP - 92/149 Verified. Linked to elevated BOD during PP and VP [PP mean BOD = 3.0 mg/L, VP mean BOD = 3.0 mg/L.
03 2665	Southeast Florida Coast	3197	C-24	STREAM	3F	Iron	Fe ≥ 1.0 mg/L	High	2005	PP - 30/39 Potentially Impaired; VP - 12/25 Verified
03 2666	Southeast Florida Coast	3200	C-23	STREAM	3F	Nutrients (CHLA)	TP =0.32 mg/L	Medium	2008	PP - Insufficient Data; VP - Verified, with one annual mean chl a value above 20 ug/l. Phosphorus limiting for both PP and VP based on TN/TP ratios (PP TP median = 0.306 mg/L, VP TP median = 0.32 mg/L. PP median TN/TP ratio = 4.79 (420 values), VP median TN/TP ratio = 4.42 (328 values).
03 2667	Southeast Florida Coast	3200	C-23	STREAM	3F	Iron	Fe ≥ 1.0 mg/L	Medium	2008	PP - 47/57 Potentially Impaired; VP - 14/27 Verified
03 2668	Southeast Florida Coast	3200	C-23	STREAM	3F	Dissolved Oxygen	DO < 5 mg/L	Medium	2008	PP - 79/161 Potentially Impaired; VP - 56/125 Verified Linked to elevated TP level. TP above the screening level for both the PP and VP. (PP median 0.31 mg/l and; VP median 0.32 mg/l).
03 2669	Southeast Florida Coast	3208	MANATEE POCKET	ESTUARY	3M	Nutrients (CHLA)	TN = 0.805 mg/L TP = 1.0 mg/L	Low	2010	PP - Potentially Impaired; VP - Verified, with four annual mean chl a values above 11 ug/L. Both phosphorous and nitrogen identified as limiting nutrient based on TN/TP ratios. PP median TN/TP ratio = 9.63 (175 values), VP median TN/TP ratio = 10.04 (154 values).
03 2670	Southeast Florida Coast	3208	MANATEE POCKET	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - 0/1Insufficient Data; VP - 27/30 Verified
04 0805	Southeast Florida Coast	3208A	MARTIN CO. ICCW	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - 0/1Insufficient Data; VP - 19/24 Verified
03 2671	Southeast Florida Coast	3210	TIDAL ST.LUCIE	ESTUARY	3M	Nutrients (CHLA)	TN = 1.124 mg/L TP = 0.185 mg/L	Medium	2008	PP - Potentially Impaired; VP - Verified, with seven annual mean chl a values above 11 ug/L. Both phosphorous and nitrogen are limiting nutrients based on TN/TP ratios. TN median = 1.124 mg/L, median TP = 0.185 mg/L. PP median TN/TP ratio = 6.44 (478 values), VP median TN/TP ratio = 5.87 (256 values).
03 2672	Southeast Florida Coast	3210	TIDAL ST.LUCIE	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - 0/2 Insufficient Data; VP - 8/25 Verified
03 2673	Southeast Florida Coast	3210A	ST. LUCIE CANAL	ESTUARY	3M	Nutrients (CHLA)	TN = 1.18 mg/L	Low	2010	PP - Not Impaired; VP - Verified, with one annual mean chl a value above 11 ug/L. PP median 1.291 mg/L and VP median 1.18 mg/L. PP median TN/TP ratio = 7.46 (234 values), VP median TN/TP ratio = 7.18 (161 values).
04 0806	Southeast Florida Coast	3210A	ST. LUCIE CANAL	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - No Data; VP - 22/36 Verified
03 2674	Southeast Florida Coast	3210A	ST. LUCIE CANAL	ESTUARY	3M	Dissolved Oxygen	DO < 4 mg/L, and < 5 mg/L as daily average.	Low	2010	PP - 37/196 Potentially Impaired, 48/172 Verified Linked to nitrogen levels. TN levels during PP = 1.2935; VP = 1.254 mg/L.
03 2675	Southeast Florida Coast	3210B	SOUTH FORK ST. LUCIE	STREAM	3F	Dissolved Oxygen	DO < 5 mg/L	Low	2010	PP - 92/209 Potentially Impaired; VP - 88/169 Verified Linked to elevated BOD level. BOD median = 2.25 mg/L.

St.Lucie - Loxahatchee Group 2 Basin/ Southeast District - Verified List
Hydrologic Units: Southeast Florida Coast

OGC Case Number	Basin Group Name	WBID	Water Segment Name	Waterbody Type	Waterbody Class	Parameters Assessed Using the Impaired Waters Rule (IWR)	Concentration Causing Impairment[1]	Priority for TMDL Development[2]	Projected Year for TMDL Development[2]	Comments[3] (# Exceedances/# Samples) PP=Planning Period VP=Verified Period
04 0847	Southeast Florida Coast	3211	BESSEY CREEK	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - No Data; VP - 16/29 Verified
03 2675	Southeast Florida Coast	3211	BESSEY CREEK	ESTUARY	3M	Dissolved Oxygen	DO < 4 mg/L, and < 5 mg/L as daily average.	High	2005	PP - 8/19 Potentially Impaired; VP - 10/29 Verified Linked to elevated TP level. TP above the screening level for the PP and; VP (PP median 5.5 mg/l and; VP median 0.213 mg/l).
03 2677	Southeast Florida Coast	3211	BESSEY CREEK	ESTUARY	3M	Nutrients (CHLA)	TN = 0.213 mg/L	High	2005	PP - Insufficient Data; VP - Verified, with one annual mean chl a value above 20 ug/L. Phosphorus limiting based on TN median = 0.747 mg/L and TP median = 0.213 mg/L. PP TN/TP ratio median = 7.73 (13 values), VP = 3.88 (23 values).
03 2678	Southeast Florida Coast	3218	C-44	STREAM	3F	Dissolved Oxygen	DO < 5 mg/L	Medium	2008	PP - 48/159 Potentially Impaired; VP - 50/154 Verified Linked to elevated BOD level of 6.6 mg/L during PP.
03 2679	Southeast Florida Coast	3218	C-44	STREAM	3F	Iron	Fe ≥ 1.0 mg/L	Medium	2008	PP - 33/42 Potentially Impaired; VP - 13/26 Verified
03 2680	Southeast Florida Coast	3224	JONATHAN DICKINSON	ESTUARY	3M	Fecal Coliform	FC > 400 counts/100ml	Medium	2008	PP - 33/288 Not Impaired, VP - 24/162 Verified
03 2681	Southeast Florida Coast	3224	JONATHAN DICKINSON	ESTUARY	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2682	Southeast Florida Coast	3224A	NORTH FORK LOXAHATCHEE	STREAM	3F	Dissolved Oxygen	DO < 4 mg/L, and < 5 mg/L as daily average.	Medium	2008	PP - 52/74 Potentially Impaired; VP - 37/55 Verified Linked to nutrients, with both nitrogen and phosporous as limiting nutrients, colimtation of nitrogen and phosphorus, TN during VP = 0.795 mg/L, TP during VP = 0.028 mg/L.
03 2683	Southeast Florida Coast	3224A	NORTH FORK LOXAHATCHEE	STREAM	3F	Nutrients (CHLA)	TN = 0.795 TP = 0.028	Medium	2008	PP - Potentially Impaired, VP - Verified, with one annual mean chl a value above 20 ug/L. Colimitation of nitrogen and phosphorus based on TN/TP ratios. TN median = 0.795 mg/L and TP median = 0.028 mg/L. PP median TN/TP ratio = 31.53 (62 values), VP median TN/TP ratio = 31.53 (44 values).
03 2684	Southeast Florida Coast	3226A	NW FORK LOXAHATCHEE	ESTUARY	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2685	Southeast Florida Coast	3226C	SW FORK LOXAHATCHEE	ESTUARY	3M	Fecal Coliform	FC > 43 col / 100ml	Low	2010	PP - 23/157 Potentially Impaired, VP - 12/73 Verified
03 2686	Southeast Florida Coast	3226C	SW FORK LOXAHATCHEE	ESTUARY	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2687	Southeast Florida Coast	3226D	LOXAHATCHEE RIVER	ESTUARY	2	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2688	Southeast Florida Coast	3234	C-18	STREAM	1	Total Coliform	TC > 2400	Low	2010	PP - 8/48 Potentially Impaired; VP - 5/24 Verified
03 2689	Southeast Florida Coast	3234	C-18	STREAM	1	Iron	Fe ≥ 1.0 mg/L	Low	2010	PP - 78/101 Potentially Impaired; VP - 30/58 Verified
03 2690	Southeast Florida Coast	5003A	SOUTH INDIAN RIVER	ESTUARY	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
04 0809	Southeast Florida Coast	5003A	SOUTH INDIAN RIVER	ESTUARY	3M	Copper	Cu ≥ 3.7 ug/L	Medium	2008	PP - 0/1 Insufficient Data, VP - 14/23 Verified
03 2691	Southeast Florida Coast	8101B	DUBOIS PARK	COASTAL	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2692	Southeast Florida Coast	8101C	CORAL COVE PARK	COASTAL	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.

St.Lucie - Loxahatchee Group 2 Basin/ Southeast District - Verified List
Hydrologic Units: Southeast Florida Coast

OGC Case Number	Basin Group Name	WBID	Water Segment Name	Waterbody Type	Waterbody Class	Parameters Assessed Using the Impaired Waters Rule (IWR)	Concentration Causing Impairment[1]	Priority for TMDL Development[2]	Projected Year for TMDL Development[2]	Comments[3] (# Exceedances/# Samples) PP=Planning Period VP=Verified Period
03 2693	Southeast Florida Coast	8102	COASTAL OCEAN 2	COASTAL	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2694	Southeast Florida Coast	8103	COASTAL OCEAN 3	COASTAL	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2695	Southeast Florida Coast	8104	COASTAL OCEAN 4	COASTAL	3M	Bacteria (in Shellfish)	Exceeds Shellfish Evaluation and Assessment Section thresholds.	Medium	2008	Listed based on downgrade of shellfish harvesting classification.
03 2696	Southeast Florida Coast	8998	FLORIDA ATLANTIC COAST	ESTUARY	3M	Mercury (in fish tissue)	Hg less than current criterion 0.025 ug/L for an estuary, or 0.5 ug/L for freshwater.	Low	2011	Data verified to be within the last 7.5 years. Confirmed recent data for coastal fish advisory for Ladyfish, grouper, and tuna. Includes WBIDs 8101B and 8101C.

[1] "ln H" means the natural logarithm of total hardness expressed as mg/L of CaCO3. For metals criteria involving equations with hardness, the hardness shall be set as 25 mg/L if actual hardness is < 25mg/L and set at 400 mg/L if actual hardness is > 400 mg/L. The concentration causing impairment for nutrient listings is the median.

[2] Where a parameter was 1998 303(d) listed, the priority shown for it in the 1998 303(d) list was retained (high or low). Where a parameter was only identified as impaired under the IWR, priorities of high, medium or low were used. Waterbodies where Mercury (in fish tissue) has been identified as impaired under the IWR, have been given a medium priority and a TMDL is scheduled for 2011.

[3] PP - Planning Period (January, 1991 through December, 2000); VP - Verified Period (January, 1996 through June 30, 2003)

Note: St.Lucie - Loxahatchee Group 2 Verified List (VL) is based on FDEP IWR Run 14.2.